DRAWINGS

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Fig.1 (a)

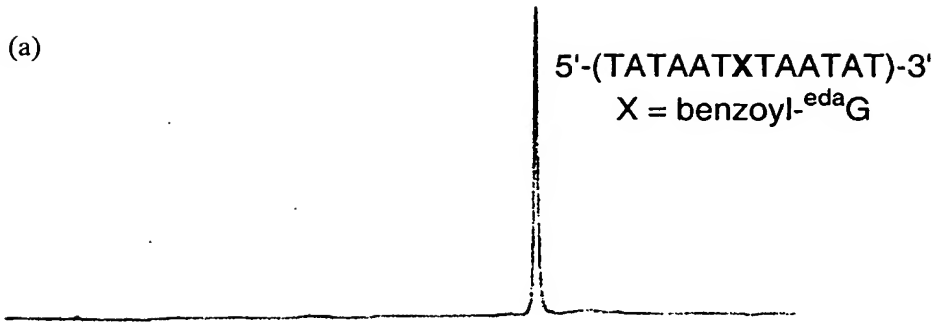


Fig.1 (b)

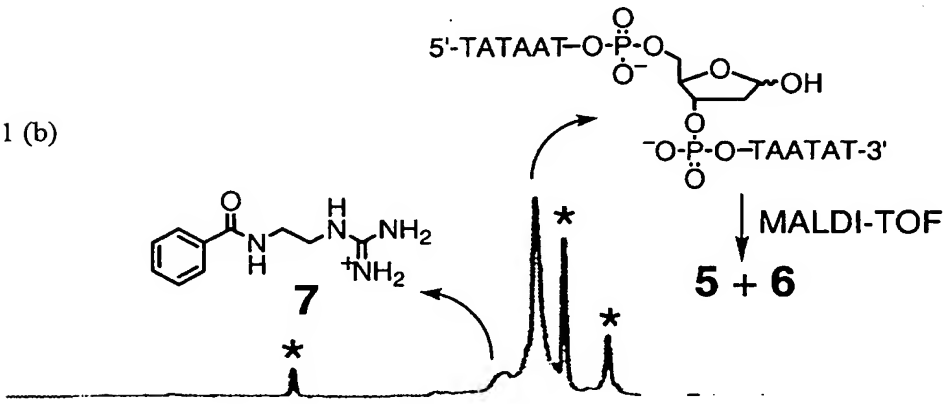


Fig.1 (c)

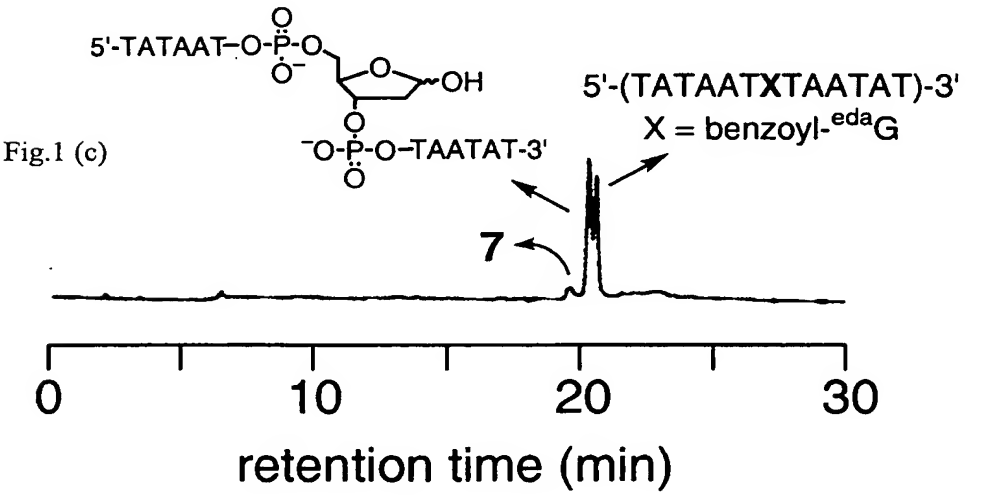


Fig.2

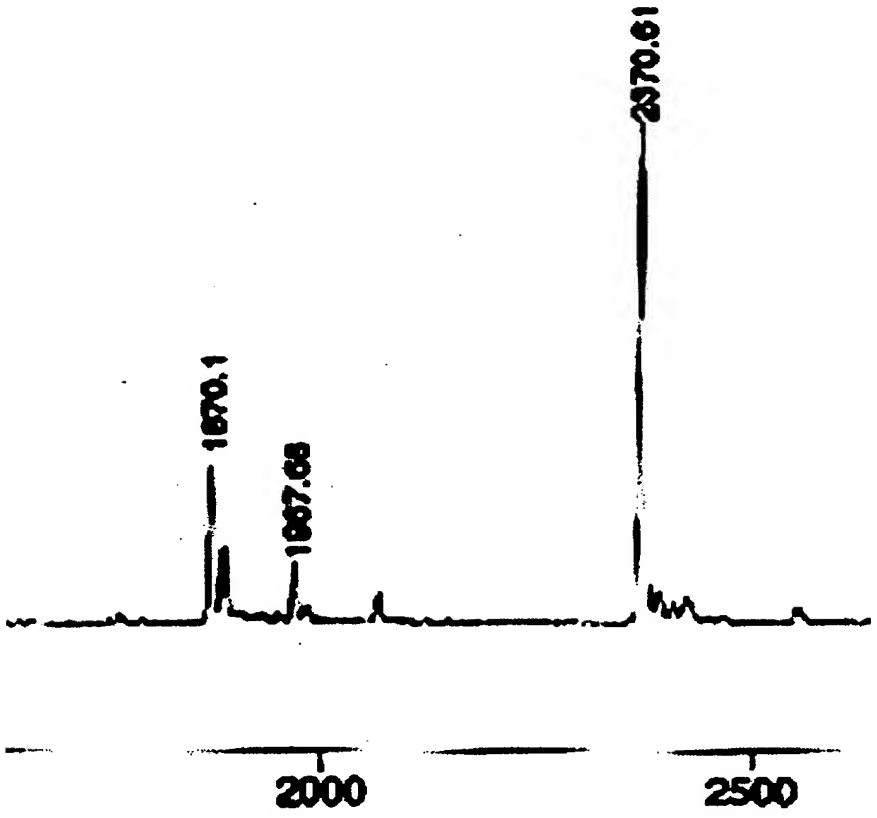


Fig.3

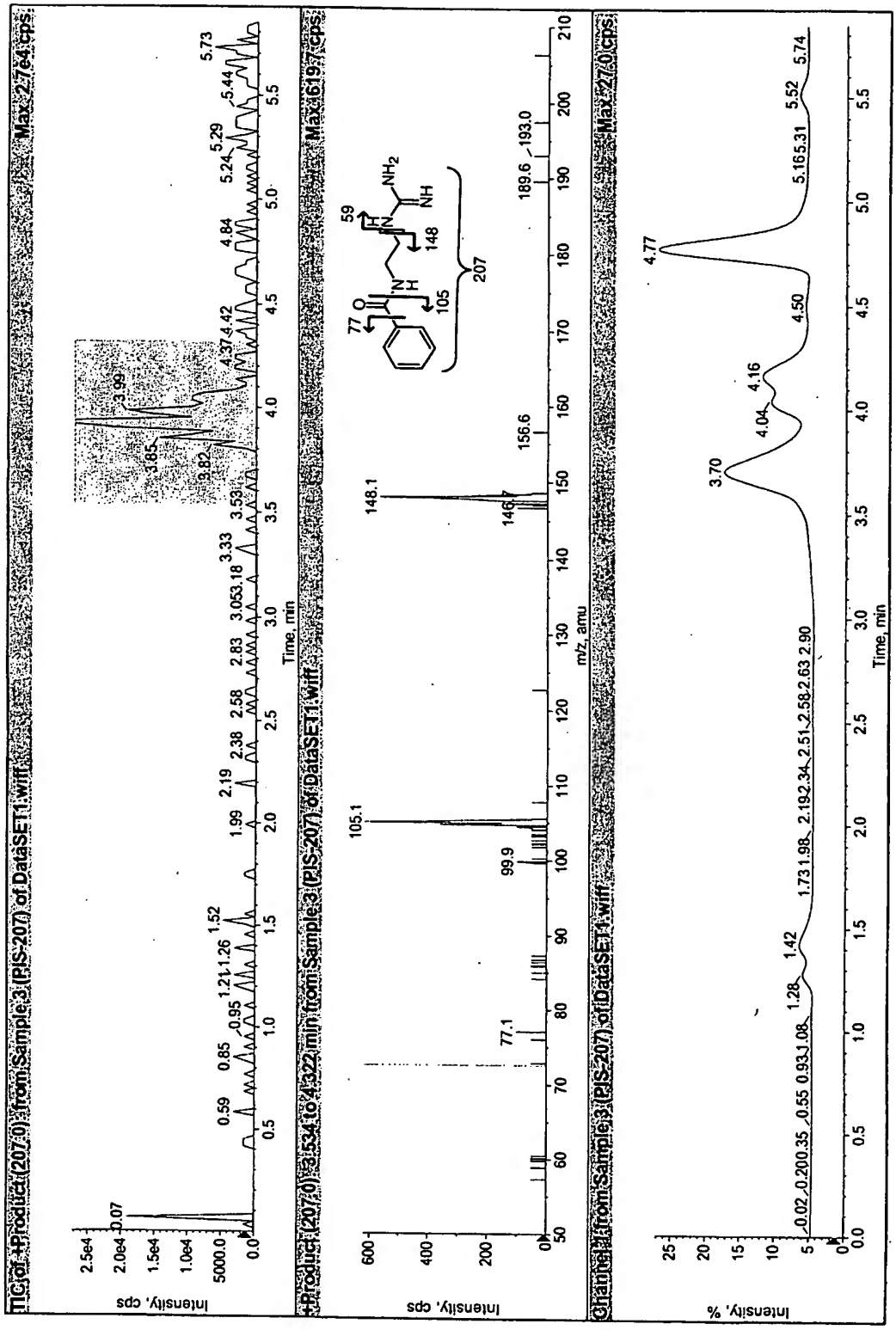
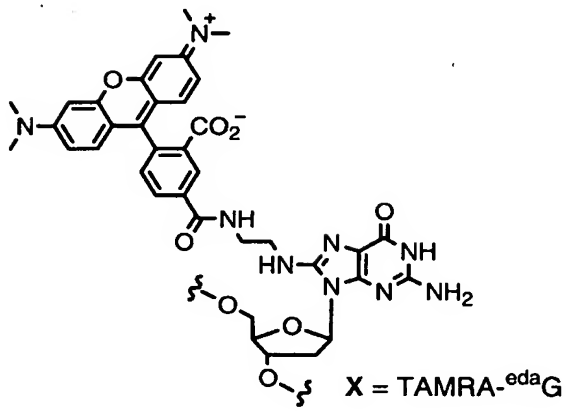

TIC of +Product (207.0) from Sample 3 (PIS-207) of DataSET1.wiff
Max 27e4 cps
Intensity, cps
Time, min
+Product (207.0) 3.534 to 4.432 min from Sample 3 (PIS-207) of DataSET1.wiff
Max 619.7 cps
m/z, amu
Channel from Sample 3 (PIS-207) of DataSET1.wiff
Max 27.0 cps
Intensity, %

Fig.4

ODN2: 5'-(^{32}P)-d(ATTTATAGTGTGGGTTGTTXTTTATTAT)-3'
ODN2'(U*): 3'-d(TAAATAU*CACACCCAACAACAAATAATA)-5'
ODN2'(T): 3'-d(TAAATA T CACACCCAACAACAAATAATA)-5'



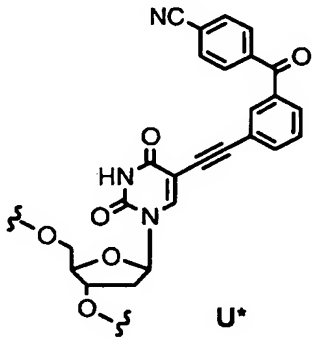


Fig.5(A)

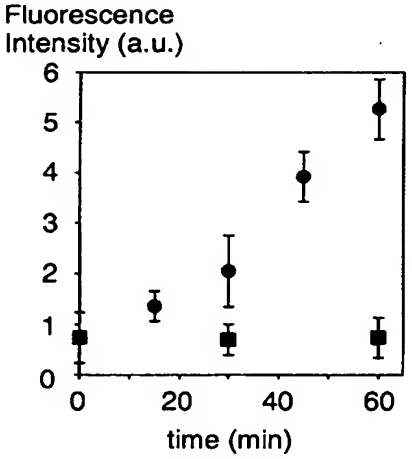


Fig.5(B)

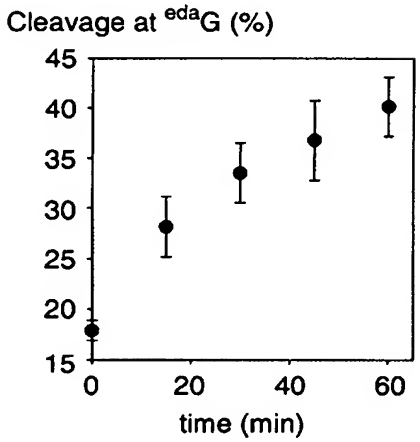


Fig.6

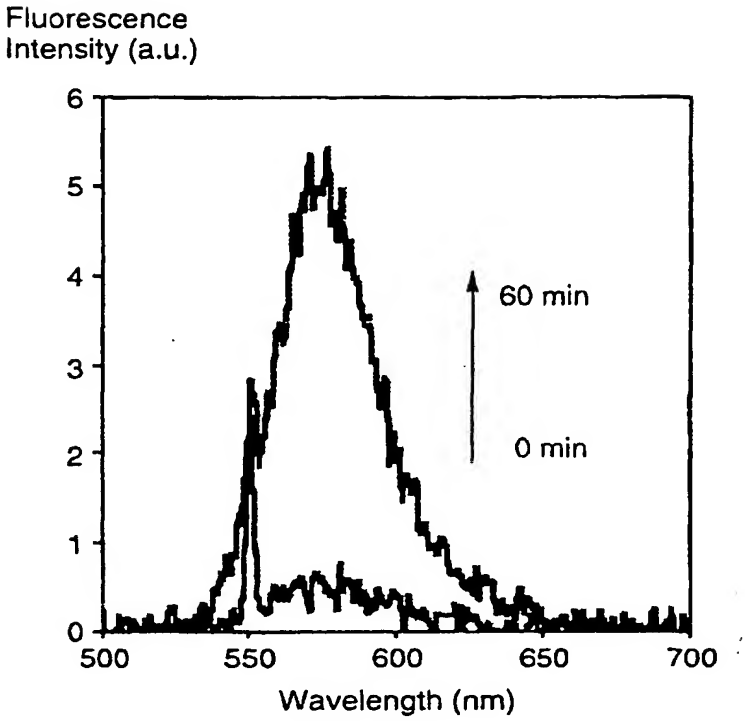

Fluorescence
Intensity (a.u.)
6
5
4
3
2
1
0
500
550
600
650
700
Wavelength (nm)
60 min
0 min

Fig.7

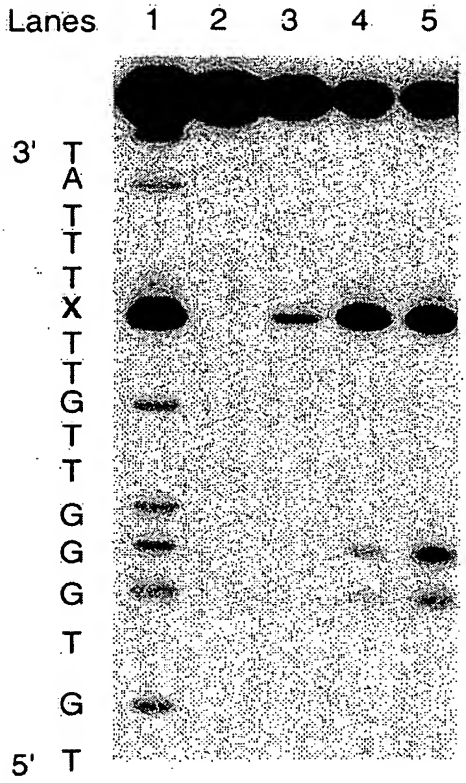


Fig.8

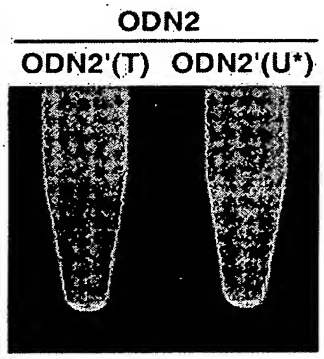


Fig.9

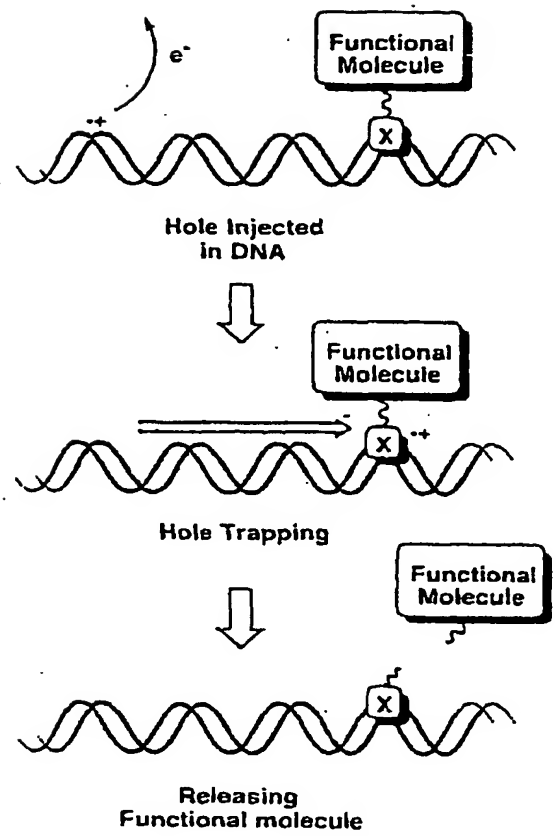
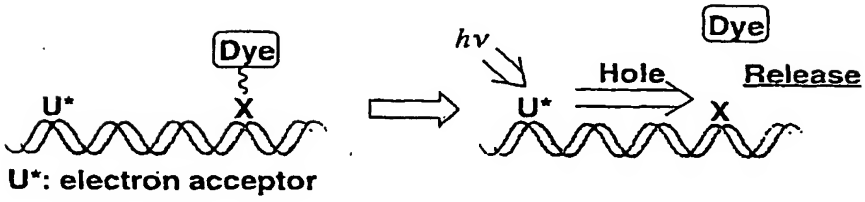

e⁻
Functional Molecule
X
Hole Injected in DNA
Functional Molecule
X
Hole Trapping
Functional Molecule
X
Releasing Functional molecule

Fig.10


Dye
U*
X
hν
Dye
Hole
Release
U*
X
U*: electron acceptor

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